

AMENDMENTS TO THE CLAIMS:

Please cancel Claims 1-17 and add new claims 18-47, as follows:

Claims 1-17 (canceled)

18. (new) A device for determining the conductance of laundry in a laundry dryer, which comprises at least two electrodes, wherein the device comprises means for heat reduction from at least a part at least of one of the electrodes.

19. (new) The device as claimed in Claim 18, wherein the means for heat reduction are arranged on the rear of the electrodes.

20. (new) The device as claimed in Claim 18, wherein the means for heat reduction includes at least one of means for improving radiation of heat from the electrodes and cooling surfaces, which are connected to the electrodes.

21. (new) The device as claimed in Claim 18, wherein the means for heat reduction comprises means for air supply and the electrodes are arranged on a component in which openings are formed, cool air being supplied and removed from the electrodes, whereby the cool air is supplied through a middle opening and the cool air is removed through at least one side opening.

22. (new) The device as claimed in Claim 21, wherein the means for air supply are formed by defined faulty air openings in the vicinity of the electrodes, through which ambient air can be conveyed to the electrodes.

23. (new) The device as claimed in Claim 21, wherein the means for air supply comprises at least one of a fan and a source of compressed air.

24. (new) The device as claimed in Claim 18, wherein the electrodes are built fixed in the laundry dryer.

25. (new) A laundry dryer, which comprises at least one receiving area for laundry and at least two electrodes for measuring the conductance of the laundry, whereby at least one of the electrodes at least partially borders on the receiving area, the laundry dryer including cooling means for cooling at least a part of at least one of the electrodes.

26. (new) The device as claimed in Claim 25, wherein the cooling means are arranged on the rear of the electrodes.

27. (new) The device as claimed in Claim 25, wherein the cooling means includes at least one of means for improving radiation of heat from the electrodes and cooling surfaces, which are connected to the electrodes.

28. (new) The device as claimed in Claim 25, wherein the cooling means comprises air supply means for supplying cool air flow and the electrodes are arranged on a component in which openings are formed, the cool air flow being supplied to the electrodes through a middle opening and the cool air flow being removed from the electrodes through at least one side opening.

29. (new) The device as claimed in Claim 28, wherein the air supply means include faulty air openings adjacent the electrodes, the cool air flow being conveyed to the electrodes through the faulty air openings.

30. (new) The device as claimed in Claim 21, wherein the air supply means comprises at least one of a fan and a source of compressed air.

31. (new) The laundry dryer as claimed in Claim 25, wherein cooling means includes an air supply means for providing a cool air flow, the air supply means including a sub-pressure being set in the receiving area, the cooling means including defined air openings adjacent the electrodes, the air supply means supplying cool air flow to the electrodes, the dryer comprising a condenser for condensing water, and the cool air flow passing through the condenser and at least a part of the cool air flow is also used for cooling the electrodes.

32. (new) The laundry dryer as claimed in Claim 25, wherein the electrodes are built in to the laundry dryer in the vicinity of a front end shield.

33. (new) A laundry dryer comprising:
a laundry drum defining a receiving area for receiving laundry;
a sensor for measuring the amount of moisture in the laundry, the sensor including an electrode for measuring the conductance of the laundry and having an outer surface exposed to the receiving area;
an air intake receiving a cool air flow; and
an air passageway directing at least a portion of the cool air flow to the sensor to cool the electrode and resist formation of deposits on the electrodes.

34. (new) The laundry dryer as claimed in Claim 33, wherein the sensor includes the electrode being connected to a base component defining an opening in fluid communication with the air passageway for providing the cool air flow to pass through the base component and contact the electrode.

35. (new) The laundry dryer as claimed in Claim 34, wherein the electrode is formed as an elongated trough-shaped member defining an internal cavity, the outer surface of the electrode facing away from the base component and the internal cavity facing toward the base component and being in fluid communication with the opening and receiving the cool air flow from the opening.

36. (new) The laundry dryer as claimed in Claim 35, wherein the electrode includes at least one gap permitting the cool air flow to pass from the electrode into the receiving area of the laundry drum.

37. (new) The laundry dryer as claimed in Claim 35, further comprising a pipe extension extending from the opening into the electrode to direct the cool air flow against the electrode.

38. (new) The laundry dryer as claimed in Claim 35, wherein the base component defines a side opening, the cool air flow entering the electrode through the opening and exiting the electrode through the side opening.

39. (new) A process for preventing deposit build-up on electrodes for conductance measuring in a laundry dryer, the process comprising controlling the temperature of the electrodes by means for heat reduction.

40. (new) The process as claimed in Claim 39, wherein the means for heat reduction are arranged on the rear of the electrodes.

41. (new) The process as claimed in Claim 39, wherein the means for heat reduction includes at least one of means for improving radiation of heat from the electrodes and cooling surfaces, which are connected to the electrodes.

42. (new) The process as claimed in Claim 39, wherein the means for heat reduction comprises means for air supply and the electrodes are arranged on a component in which openings are formed, cool air being supplied and removed from the electrodes, whereby the cool air is supplied through a middle opening and the cool air is removed through at least one side opening.

43. (new) The process as claimed in Claim 42, wherein the means for air supply are formed by defined faulty air openings in the vicinity of the electrodes, through which ambient air can be conveyed to the electrodes.

44. (new) The process as claimed in Claim 42, wherein the means for air supply comprises at least one of a fan and a source of compressed air.

45. (new) The process as claimed in Claim 39, wherein the electrodes are brought to a temperature which is below the processing temperature in the laundry dryer and below the temperature of metallic parts adjacent to the electrodes.

46. (new) The process as claimed in Claim 39, wherein the electrodes are cooled by air cooling.

47. (new) The process as claimed in Claim 39, wherein sub-pressure is set in a receiving area for laundry in the laundry dryer and the electrodes are supplied with cool air, in that ambient air is guided to the electrodes through defined faulty air openings.